

METHODS AND DEVICES FOR DISPERSION-CONTROLLED TRANSPORT OR PROCESSING OF POLAR OR POLARIZABLE MATERIALS

ABSTRACT OF THE DISCLOSURE

5 [0120] Methods for controlling dispersion of material during flow in a
microfluidic device that include capturing polar or polarizable materials in localized
electric fields. Localized electric fields are generated in various capture electrode
configurations. Methods for amplifying nucleic acids, sequencing nucleic acids, and
other processes are provided. Devices and integrated systems for performing the
10 methods of the invention are also provided.